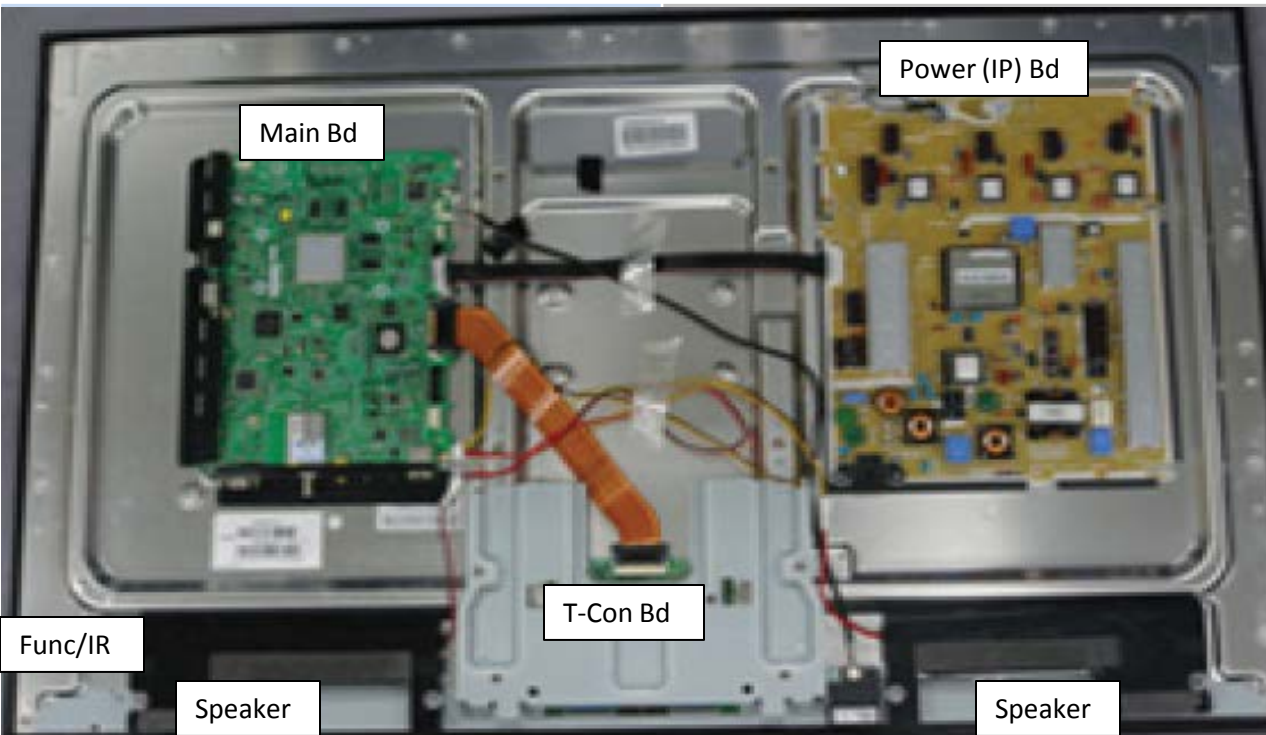


Publication #: APUN55D6900W Rev. Date: 6/4/12



Service Bulletins:

➤ ASC20110624002 - 2011 LED Option Byte Table

Quick Part List:

Version	Parts No	Short Description
ALL	BN44-00428B	SMPS
ALL	BN94-04629E	Main PCB
ALL	BN96-17107B	Bluetooth Module
ALL	BN96-18099A	3D & IR PCB
ALL	BN96-18099E	Bluetooth / IR PCB
ALL	BN96-18232B	Function PCB
ALL	BN95-00451A	Panel
ALL	BN96-16498A	T-CON PCB
ALL	BN96-16722B	Stand Guide
ALL	BN96-16877A	Rear Cover
ALL	BN96-16901D	Middle Cover
ALL	BN96-18195A	Stand Guide Neck
H301	BN96-18954C	Stand Base
ALL	BN59-01134B	Remote
ALL	BN96-17116K	LVDS Cable
ALL	BN96-18089A	Speaker
ALL	3903-000598	Power Cord
ALL	BN63-02368B	Cleaning Cloth

FIRMWARE

- LED TV for D6300/D6900 T-GASFAKUC 1020.2
Description - This firmware can be available Amazon app.
- Enhances firmware security
- This firmware will decrease flickering problem on 3D mode. (only 3D model)
- Change the way to get out of Store Demo Mode
- Change the type of information of Info banner
- Prevent escaping issue when pressing volume button on video apps(Netflix, Vudu, etc)
- Support Remote Service
- For netflix 3.1 service.

HELP: 1-888-751-4086 (Tech Sup. – ASC/SSD)
1-866-894-0637 (Tech Sup. - FE/ME)

GSPN

[http://service.samsungportal.com/EP/web/portal/jsp/EP_Default1.jsp](http://service.samsungportal.com/EP/web/portal.jsp/EP_Default1.jsp)

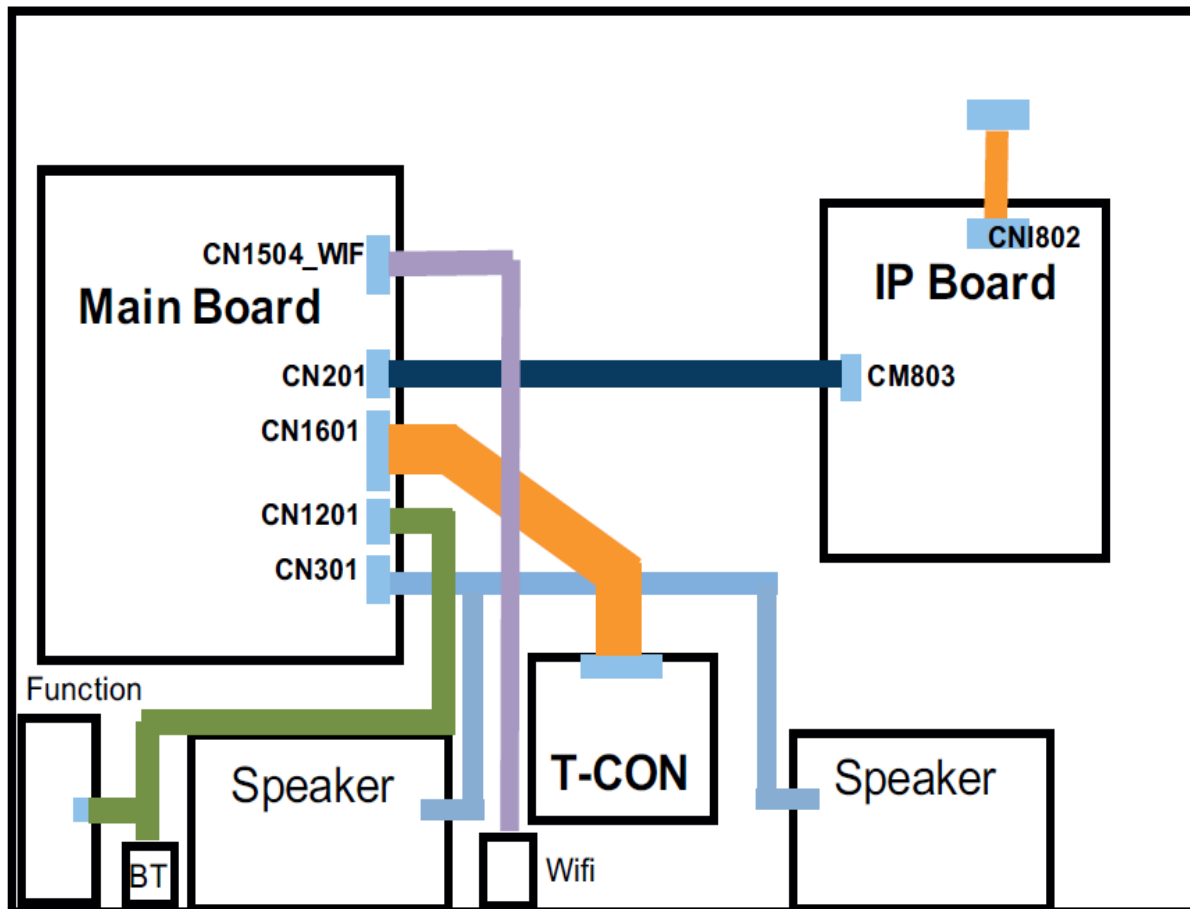
PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

Power On Problems: (see page 3)

Video Problems: (see page 4)



CN201(to Power Board)			
1	B5V_PW	11	B13V_PW
2	SW_POWER	12	B13V_PW
3	B5V_PW	13	B13V_PW
4	A5V_PW	14	PWM_DIMMING
5	GND	15	GND
6	GND	16	PWM_DIMMING_CPLD2
7	B18VS_PW	17	OVD_ON
8	GND	18	PWM_DIMMING_CPLD3
9	B18VS_PW	19	OVD_LEVEL
10	SW_INVERTER	20	PWM_DIMMING_CPLD4

CN301(to Speaker)			
1	R+	3	L+
2	R-	4	L-

CN401(to Function/IR)			
1	IR	5	MSDA_A5V
2	GND	6	WAKE
3	A3.3V_PW	7	LED_STB
4	MSCL_A5V	8	NC

Power On Sequence:

1. Standby Voltage, (CNM803, #4, 5v)
2. Power On, (CNM803, #2, 0-3.5v)
3. Low Voltage Supplies On, (B5v, 18v, & 13v)
4. High Voltage Supplies On, (CNM803, #10, SW_Inverter)
5. Back Light "On" Confirmation

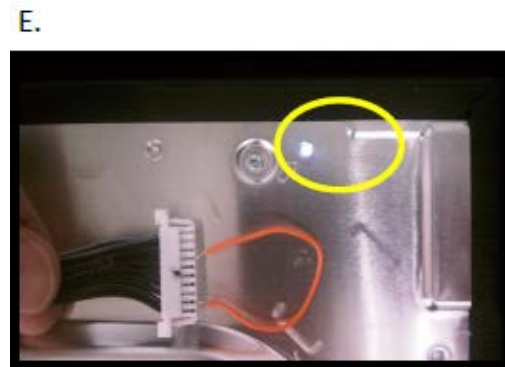
To "Force-On" Back (Edge)Lights – See procedure on next page.

Activating the Back Light

Unlike other 2011 LED Edge/Back lit models, removing the power cable from the main board and applying AC power to the SMPS will not automatically turn on the LED back lights. Due to the Pulse Width Modulation of the "negative" signal line, some additional steps are required. See instructions and pictures below. (Sample unit pictured has a confirmed good working SMPS).

1. Remove AC power cord.
2. Disconnect power cable from Main PCB, CN201 (SMPS, CNM802 to Main PCB, CN201). Notice connector cable is double layered with odd number pins on the top and even numbered pins on the bottom.
3. On the disconnected cable end, insert a jumper wire between pin 18 (A5V) and pin 2 (PWM4). {See Pic. A.}
4. Reconnect AC power cord and apply AC power.
5. Confirm via that the lower left & right LED sight holes are illuminating brightly indicating the lower 1/4th of the panel edge LED lights are working correctly. {Left side shown in Pic. B.}

This process is repeated for the rest of the PWM signals (PWM1, PWM2 and PWM3) in connector cable pins 4, 6, and 8 respectively. Shorting each to A5V should illuminate the next 1/4th of the panel (going bottom to top) edge LED lights and can be verified by looking at the appropriate LED sight holes. See additional pictures below:



TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test** (models available)
- "Display"** (If display is OK source is suspected)
- Substitute with known good Source
(external DVD or Signal Generator)

2. Using Test Patterns in Service Mode

- **ENTER SERVICE MODE** -

- Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.

Customer Remote

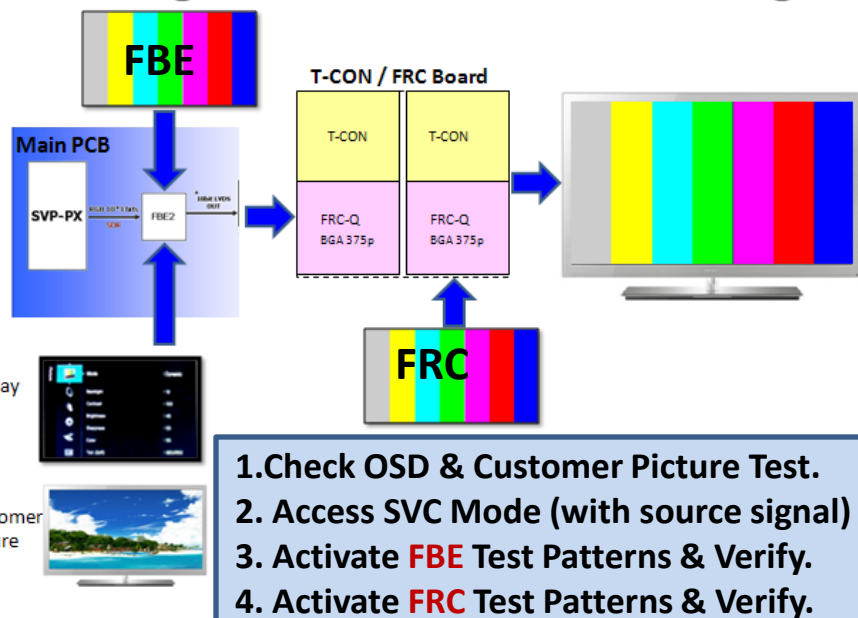
- Power off
- Mute, 182, Power

Service Remote

- Power On
- Info, Test

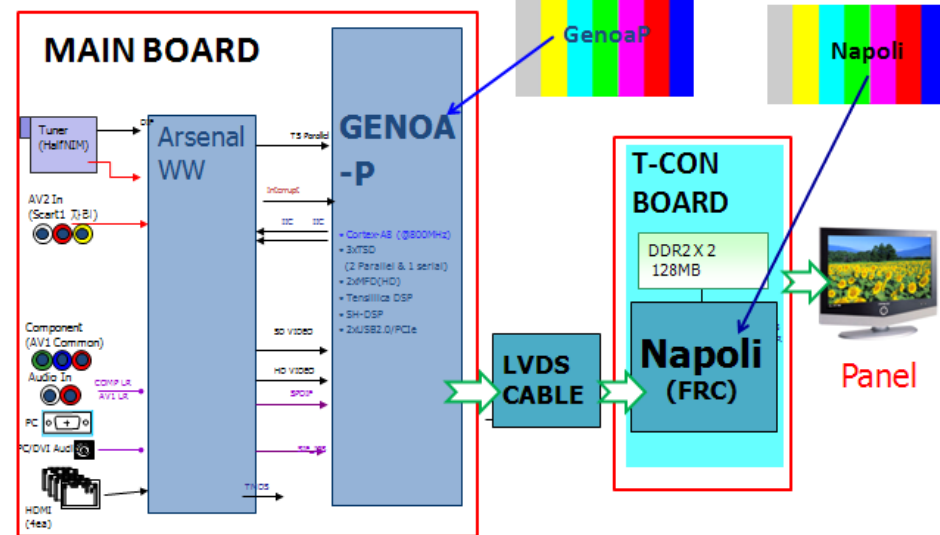
2010 Models

LCD Signal Path for Troubleshooting



2011 LED 8000 Series

Verify Test Mode Signals



- Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.
- Access Service Mode
- Access **SVC**
- Access **Test Patterns**
- Access **Genoa-P**
- Check Test Patterns
- If OK suspect input Source
- Access **Napoli**
- Check Test Patterns
- If OK and Genoa-P was not good
Suspect Main Board or LVDS Cable

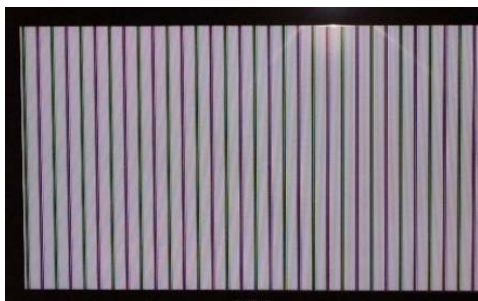
ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors
Defective Main Board,
LVDS,
or T-CON

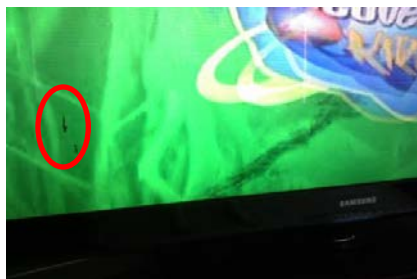


Green lines or a green screen
defective main board , LVDS , or
T-CON.



Vertical or Horizontal Lines :Defective
Panel likely but also T-CON, LVDS, or Main
Board. Use Test Patterns in Factory Service
Mode to determine error)

De-lamination: PANEL
FAILURE



ALIGNMENTS:

1. Check/Set Option Bytes:

Model Code	UN55D6900WFXZA						
Side Label	Option						
	Type	Model	Tuner	Light Effect	Ch Table	Country	Front Color
H301	55A1UF6E	UD6900	SEC_Si2173	OFF	-	US	U-T-CL-M
HQ02	55A1UF6E	UD6900	SEC_Si2173	OFF	-	US	U-T-CL-M

2. Check/Perform Firmware Upgrade for
all repairs.

3. Perform reset in Service Mode &
Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all
Settings if Main Board or Panel is replaced.